

COURSE PLANNER

Bachelor of Engineering (Honours) (Mechanical) / Bachelor of Business (Finance)

BB-EMEBUS3

Semester 2 | 2022

How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour coded to assist you with mapping out your studies.

Course Information

Each unit is equivalent to 12.5 credit points.

To qualify for the award of this course, students must complete 41 units (500 credit points) in addition of the General Studies/Mata Pelajaran Umum, comprising of:

12 Core Units 150 credit points

A set of compulsory units you MUST complete as part of your Course.

16 Mechanical Major Units 200 credit points

A set of compulsory units you MUST complete as part of your Course.

12 Finance Major Units 150 credit points

A set of compulsory units you MUST complete as part of your Course.

1 Industry Placement Unit 0 credit point

A compulsory, not-for-credit unit

General Studies/Mata Pelajaran Umum 0 credit points

- * Compulsory units to complete as a pre-requisite to graduate (see statement below)
- * Advisable to enrol in Year One
- * Email tu@swinburne.edu.my for queries

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Ministry of Education requires that all NEW Cohorts pursuing Degree course (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must take and pass the units as a prerequisite for the award of their degree

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

Year One

Semester 1 Aug/Sept 2022		
Unit Code	Unit Name	Pre-requisites
ENG10003	Mechanics of Structures	Nil
ENG10004	Digital and Data Systems	Nil
MTH10013	Linear Algebra and Applications	Nil
PHY10004	Electronics and Electromagnetism	Nil
Semester 2 Feb/Mar 2023		
ENG10001	Engineering, Design and Innovation	Nil
ENG10002	Engineering Materials	Nil
MTH10012	Calculus and Applications	Nil
PHY10001	Energy and Motion	Nil
MPU3193	Philosophy and Current Issues <i>(Malaysian and International Students)</i>	Nil
Winter Term July 2023		
MPU3212	Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i>	Nil

Year Two

Semester 3 Aug/Sept 2023		
Unit Code	Unit Name	Pre-requisites
MTH20011	Mathematics 4A	MTH10013 & MTH10012
MEE20005	Materials & Manufacturing 1	ENG10002
MEE20003	Fluid Mechanics 1	MTH10013 & MTH10012
MEE20006	Machine Dynamics 1	MTH10013 & MTH10012 & PHY10001
MPU3183	Penghayatan Etika dan Peradaban <i>(Malaysian Students Only)</i>	Nil
MPU3143	Malay Language Communication 2 <i>(International Students Only)</i>	Nil
Semester 4 Feb/Mar 2024		
MEE20002	Computer Aided Engineering Mechanical	ENG10001
MEE20004	Structural Mechanics	ENG10003
MEE20001	Thermodynamics	PHY10001
MTH20010	Mathematics 3A	MTH10013 & MTH10012

Year Three

Semester 5 Aug/Sept 2024		
Unit Code	Unit Name	Pre-requisites
MEE40001 *	Heat Transfer	MTH20010
MEE30004 *	Solid Mechanics	MEE20004
ACC10007	Financial Information for Decision Making	Nil
MKT10007	Fundamentals of Marketing	Nil
EAT20008 #	Professional Experience in Engineering	Introductory Seminar
Semester 6 Feb/Mar 2025		
MEE30001 *	Materials and Manufacturing 2	MEE20005
MEE30003 *	Machine Design	MEE20004
ECO10004	Economic Principles	Nil
INF10003	Introduction to Business Information Systems	Nil

Year Four

Semester 7 Aug/Sept 2025		
Unit Code	Unit Name	Pre-requisites
MEE40002 *	Mechanical Systems Design	MEE30003
MME30001 *	Engineering Management 1	100 credit points
FIN10002	Financial Statistics	Nil
FIN20016	Ethics of International Finance	ECO10004
Semester 8 Feb/Mar 2026		
MEE30002 *	Control Engineering	MTH20011
MME40001 *	Engineering Management 2	100 credit points
FIN20014	Financial Management	ACC10007 & FIN10002
LAW20045	Finance Law	125 credit points

Year Five

Semester 9 Aug/Sept 2026		
Unit Code	Unit Name	Pre-requisites
MEE40004 *	Fluid Mechanics 2	MEE20003
ENG40003 *	Final Year Research Project 1 (Eng/Bus)	350 credit points & MKT10007, ECO10004, ACC10007 and INF10003
FIN30014	Financial Risk Management	FIN20014
FIN30020	Alternative Investments	FIN20014
Semester 10 Feb/Mar 2027		
MEE40003 *	Machine Dynamics 2	MEE20006
ENG40004 *	Final Year Research Project 2 (Eng/Bus)	ENG40003
FIN30016	Management of Investment Portfolios	FIN20014
FIN30021	Fixed Income and Debt Markets	FIN20014

Notes

EAT20008 Professional Experience in Engineering is compulsory for all engineering students and must be taken before the last semester of study as part of EAC's requirement. Introductory Seminar will be conducted in week 4 of normal semester.

* Honours merit units.